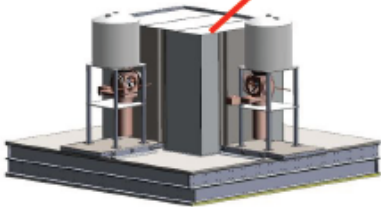
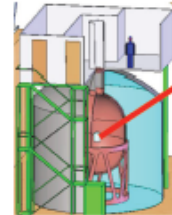


# MAJORANA DEMONSTRATOR and GERDA



- $^{76}\text{Ge}$  modules in electroformed Cu cryostat, Cu / Pb passive shield
- $4\pi$  plastic scintillator  $\mu$  veto
- DEMONSTRATOR: 30 kg  $^{76}\text{Ge}$  and 10 kg  $^{\text{nat}}\text{Ge}$  PPC detectors



- $^{76}\text{Ge}$  array submersed in LAr
- Water Cherenkov  $\mu$  veto
- Phase I: 18 kg (H-M/IGEX xtals)
- Phase II: +20 kg PPC detectors

## Joint Cooperative Agreement:

Open exchange of knowledge & technologies (e.g. MaGe, R&D)

Intention to merge for larger scale experiment

Select best techniques developed and tested in GERDA and MAJORANA